

Substitute for Form 1449 A & B/PTO

Complete if Known

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Application Number	10/733,450
Confirmation Number	2318
Filing Date	December 12, 2003
First Named Inventor	Shintaro Washizu et al
Art Unit	1763
Examiner Name	Lyons, M.
Attorney Docket Number	Q78911

Sheet	1	of	3
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U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number	Kind Code ² (if known)		
mjd	359/241	US 6,400,489		06-2002	Suzuki et al
mjd	359/245	US 6,124,963		09/2000	Schumaker, Robert R.
mjd	252/582	US 5,759,447		06/1998	Efron et al
mjd	428/1.2	US 5,246,748		09/1993	Gillberg-Laforce et al
mjd	428/333	US 4,828,917		05/1989	Wegner et al
mjd	372/12	US 4,819,239		04/1989	Sharp et al
mjd	359/289	US 4,796,981		01/1989	Nishimura et al
mjd	430/59.1	US 4,592,980		06/1986	Tomida et al
mjd	435/6	US 4,868,105		09/1989	Urdea
mjd		US 6,839,175		01/04/05	Kinoshita et al
mjd		2002/0168666 A1		11/14/02	Kinoshita et al
mjd		2002/0168756 A1		11/14/02	Kinoshita et al
mjd		2002/0168667 A1		11/14/02	Kinoshita et al
mjd		2002/0139961 A1		10/03/02	Kinoshita et al
mjd		2002/0168291 A1		11/14/02	Kinoshita et al
mjd		2003/0003476 A1		01/02/03	Kinoshita et al
mjd		2003/0179381		09/25/03	Kinoshita et al
mjd		2004/0136643		01/07/04	Washizu et al

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Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Translation ⁶
		Country Code ³	Number ⁴	Kind Code ⁵ (if known)			
mjd		EP	1 288 662 A1		03/05/2003	Petr Ivanovich Nikitin	In English
mjd		UK	2 245 971 A1		01/15/1992	Peter Stanley Belton	In English

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.	Translation ⁶
mjd		Thomas M. Cooper, et. Al., "Formation of Polypeptide-Dye Multilayers by an Electrostatic Self-Assembly Technique," LANGMUIR 1995, Vol. 11, no. 7, pp. 2713-2718.	
mjd		Munekazu Date, et al., "52.3: Direct-viewing Display Using Alignment-controlled PDLC and Holographic PDLC," SID 00 Digest pp. 1184-1187.	
mjd		Robert J. Collier, et al., "Optical Holography," Chapter 9, §§9.1 & 9.2, pp. 228-233. Academic Press, New York	
mjd		Baril et al., "Chromatography of ribonuclease treated myosin extracts from early embryonic chick muscle," Science (1964) 146:413-414.	
mjd		Liu, et al., "Cell-ELISA using B-galactosidase conjugated antibodies" Journal of Immunological Methods 234 (February 2000) p. 153-167.	

Examiner Signature	<i>mjd</i>	Date Considered	12-29-05
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		Number	Kind Code ² (if known)		
mgd		US 5,800,994	435/6	09/1998	Martinelli
mgd		US 5,783,392	435/6	07/1998	Seibl et al
mgd		US 6,686,150	435/6	02/2004	Blackburn et al
mgd		US 5,766,784	428/702	06/1998	Baskaran et al
mgd		US 4,909,990	422/82.11	03/1990	Block et al
mgd		US 4,810,639	435/7.4	03/1989	Pankratz, Thomas J.
mgd		US 4,350,761	435/7.93	09/1982	Yamamoto, Itaru
mgd		US 6,083,689	435/6	07/2000	Martinelli et al
mgd		US 6,238,864	435/6	05/2001	Yan, Lin
mgd		US 5,281,539	204/403.11	01/1994	Schramm, Willfried
mgd		US 5,354,654	435/5	10/1994	Ligler et al
mgd		US 6,451,543	435/7.1	09/2002	Kochendoerfer et al

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mgd		Buchel, M. et al., "Langmuir-Blodgett-Kuhn Multilayers of Polyglutamates with Azobenzene Moieties: Investigations of Photoinduced Changes in the Optical Properties and Structure of the Films," Langmuir 1995, Vol. 11, p4460-4466	
mgd		Menzel, H. et al., "Small-Angle X-ray Scattering and Ultraviolet-Visible Spectroscopy Studies on the Structure and Structural Changes in Langmuir-Blodgett Films of Polyglutamates with Azobenzene Moieties Tethered by Alkyl Spacers of Different Lengths" Langmuir 1994, Vol. 10, p. 1926-1933	
mgd		Okahata, Y. et al., "Orientation of DNA Double Strands in a Langmuir-Blodgett Film," Langmuir 1966, Vol. 12, p1326-1330	
mgd		Parazak, D.P. et al., "Comparison of Host-Guest Langmuir-Blodgett Multilayer Formation by Two Different Amphiphilic Cyclodextrins," Langmuir 1996, Vol. 12, p. 4046-4049	
mgd		Greenham et al, "Charge separation and transport in conjugated-polymer/semiconductor-nanocrystal composites studied by photoluminescence quenching and photoconductivity," Physical Review-B, 1996, 54(24), pp. 17628-17637	

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mjd		US 5,063,417		11/05/1991	Hopfield
mjd		US 5,756,296		05/26/1998	Cubiciotti
mjd		US 4,933,285		06/12/1990	Patton
mjd		US 3,985,617		10/1976	Yugari et al
mjd		US 5,304,631		04/1994	Stewart et al
mjd		US 6,248,539	B1	06/19/2001	Ghadiri et al
mjd		US 3,979,184		09/07/1976	Giaever
mjd		US 5,883,875		07/17/2001	Aiyer
		US			

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mjd		JP	04-009743		01/14/1992	Fujita Keisuke et al	Abstract
mjd		JP	2000-249644		09/14/2000	Shiratori Tokiaki	Abstract
mjd		JP	07/075598		03/20/1995	Yamaguchi Hideichiro et al	Abstract
mjd		JP	11-183479		07/09/1999	Kawada Shikako et al	Abstract
mjd		WO	01/12665	A2	02/22/2001	Darrell Conklin	In English
mjd		JP	63-222248		09/16/1988	Okahata Shigeo	Abstract
mjd		JP	9-512345		12/09/1997	Jean-Francois Lipskier	WO 96/26435
mjd		WO	96/26435		08/29/96	Jean-Francois Lipskier	In English

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mjd		S. Sugai et al., Poly(γ -alkyl Glutamates), Journal of Polymer Science: Part A-2, Vol. 4, 183-198 (1966)	In English
mjd		Crick, F.H.C., The Packing of α -Helices: Simple Coiled-Coils, Acta Cryst (1953) 6, 689-697	In English
mjd		Minamoto, Y. et al., Polymethylglutamate as a New Matrix for Covalently Immobilized Enzymes: Preparation and Properties of Urease and Uricase, Biotech and Bioeng'n, Vol. XXII, pp. 1225-1235 (1980)	In English
mjd		Kinoshita, T., "Structural color forming system composed of polypeptide-based LB films," <u>Nanotechnology and Nano-Interface Controlled Electronic Devices</u> , Chapter 13, 2003, pp. 233-252	In English
mjd		Miyagi, T. "Structural Color with Polypeptide LB Film," <u>Transactions of the Materials Research Society of Japan</u> , 27 3, 555-558 (2002)	In English
		Yokoi, H., "Polypeptide membranes at an interface," Prog. Polym. Sci., pp. 341-357, 2003.	In English

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mgd		"Control of Superfine Structure of Membrane and Their Characterization", Polymer, vo. 50, Takatoshi, KINOSHITA, Department of Engineering, Nagoya Institute of Technology, pp. 648-651, September 2001	YES
mgd		"A Device for Visual Detection of Antigens and Antibodies by Means of Light Interference", Thin Solid Films, vol. 91, Takeyuki KAWAGUCHI et al, pp. 369-381, 1990	YES
mgd		Color Tone Control By External Stimuli, Nagoya Institute of Technology, Imitating Function of Bio-skins Applicable to Display Devices, NIKKAN KOGYO SHINBUN, December 28, 2000, Japan	YES
mgd		T. DOI et al., Symposium: Building of Molecular Composition and Its Function, Building and control of peptide type signal transfer function, A506, Nagoya Institute of Technology, Symposium held by JST, November 28, 2000, Japan	YES
mgd		H. YOKOI et al., Preparation of Amphiphilic α -helix LB film, Polymer Preprints, Japan, Vol. 49 No. 12 IS07, Nagoya Institute of Technology, 2000, Society of Polymer Science, Japan	YES
mgd		H. YOKOI et al., Evaluation of molecular orientation of amphiphilic α -helix water surface monomolecular film, Polymer Preprints, Japan, Vol. 49 No. 13 lipd090, Nagoya Institute of Technology, 2000, Society of Polymer Science, Japan	YES
mgd		Y. OKAHATA, Sensing of Odorous and Bitter Substances by using a Bilayer Molecular Film-coated Quartz Oscillator, Biophysics, Vol. 28. No. 6 Pandect, Tokyo Institute of Technology, 1988, Japan	YES
mgd		Y. OKAHATA, Prospect for Chemical Information Conversion Membrane, Molecular Recognition to be realized on a Lipid Bilayer Molecular Membrane, SEN-I GAKKAISHI (Fiber and Industry) Vol. 46, No. 2 Feature: Functional Macromolecular Membranes Films, 1990, Japan	YES
mgd		K. ARIGA et al., Evaluation of the Viscoelasticity of the Membrane with the Use of a Quartz Oscillator, Phase Transition of the LB film, Vol. 28 No. 11, Tokyo Institute of Technology, 1990, Japan	YES
mgd		H. YOKOI et al., The 48th Symposium on Macromolecules, The Two Dimensional Orientation Control of Amphiphilic α -helix Molecule, II P f094, Nagoya Institute of Technology, October 6, 1999, Niigata, Japan	YES
mgd		H. YOKOI et al., The 49th Annual Meeting of the Society of Polymer Science, Japan (SPSJ), The pH Dependence of Molecular Orientation in Monolayer Composed of Amphiphilic α -helix Molecule at Air-water Interface, I Pg173, Nagoya Institute of Technology, May 29, 2000, Nagoya, Japan	YES
mgd		H. YOKOI et al., The 49th Symposium on Macromolecules, Preparation of LB Film consisting of Amphiphilic α -helix Molecule, IS 07, Nagoya Institute of Technology, September 27, 2000, Sendai, Japan	YES

Examiner Signature	Maurissa J. DeScha	Date Considered	12-29-05
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mjd		H. YOKOI et al., <u>The 49th Symposium on Macromolecules</u> , "Evaluation of molecular orientation of amphiphilic α -helix water surface monomolecular film", IIPd090, Nagoya Institute of Technology, September 27, 2000, Sendai, Japan	YES
mjd		Y. NAGATA, et al., <u>The 43rd Annual Meeting of the Society of Polymer Science, Japan (SPSJ)</u> , "Preparation and Function of Polypeptide Containing a Substrate-binding Site at the Molecular Terminal", II-9-06, Nagoya Institute of Technology, and National Institute of Materials and Chemical Research, Tsukuba, May 26, 1994, Nagoya, Japan	YES
mjd		H. HOSOKAWA et al., <u>The 44th Annual Meeting of the Society of Polymer Science, Japan (SPSJ)</u> , "Functional Control of Polypeptide Containing an Inclusion Terminal Group", II Pel 119, May 30, 1995, Yokohama, Japan	YES
mjd		H. HOSOKAWA et al., "Functional Control of Polypeptide Containing an Inclusion Terminal Group", Preprints of Annual meeting of the Society of Fiber Science and Technology, Japan, G-264 3G17, June 29, 1995, Tokyo (Sen-I Gakkai)	YES
mjd		H. HOSOKAWA et al., <u>45th Annual Meeting of Society of Polymer Science of Japan</u> , "Monolayer of polypeptide containing a cyclodextrin at the terminal, IIPb100, Nagoya Institute Technology, Nagoya and National Institute of Materials and Chemical Research, Tsukuba, May 29, 1996, Nagoya, Japan	YES
mjd		H. HOSOKAWA et al., <u>45th Symposium of Society of Polymer Science of Japan</u> , Molecular orientation of polypeptide containing a cyclodextrin at the terminal in the monolayer and its function, 2Pb44, Nagoya Institute of Technology, October 2, 1996, Hiroshima, Japan	YES
mjd		H. HOSOKAWA et al., <u>46th Annual Meeting of Society of Polymer Science of Japan</u> , Structural control of polypeptide containing an active site at the terminal in monolayer and its function", IIPb108, Nagoya Institute of Technology, May 24, 1997, Tokyo, Japan	YES
mjd		A. KATO et al., <u>47th Annual Meeting of Society of Polymer Science of Japan</u> , Characterization of polypeptide monolayer containing the molecular recognition site, IIPd124, Nagoya Institute of Technology, May 29, 1998, Kyoto, Japan	YES
mjd		A. KATO et al., <u>29th Annual Meeting of Union of Chemistry-Related Societies in Chubu Area, Japan</u> , Characterization of polypeptide monolayer containing a cyclodextrin at the terminal, 1B0705, Nagoya Institute of Technology, October 3, 1998, Toyohashi, Japan	YES

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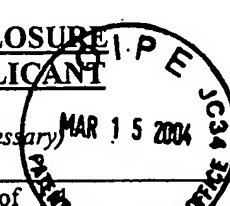
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mgo		H. YOKOI et al., The control of molecular orientation in monolayer of amphiphilic α -helix, <u>Preprints presented at 15th Symposium of Membrane Science and Technology</u> , 3PA53, Nagoya Institute of Technology and Core Research for Evolutional Science and Technology, May 12, 1999, Chiba, Japan (Sen-I Gakkai)	YES
mgo		T. DOI et al., <u>48th Symposium of Society of Polymer Science of Japan</u> , The molecular orientation and oscillation of polypeptide monolayer at oil/water interface, 111J02, Nagoya Institute of Technology and Core Research for Evolutional Science and Technology, October 8, 1999, Niigata, Japan	YES
mgo		T. DOI et al., <u>Open Symposium of Creation and Functions of New Molecules and Molecular Assemblies sponsored by Core Research for Evolutional Science and Technology (CREST)</u> , Creation of peptide-type signal transmitting function and control of its function, A506, Nagoya Institute of Technology, November 28, 2000, at Japan Science and Technology Corporation (JST), Tokyo, Japan	
mgo		"Molecular alignment of poly(γ -methyl-L-glutamate) containing a β -cyclodextrin at the terminal and molecular identification (n-hexane/water interface)", Control of molecular alignment of polypeptide molecular film published by Dr. Tomokiyo Doi, chapter 4, 2000	
mgo		"The Control of Structure and Functions of LB-Film composed of Bio-Related Polymers", First International Symposium on Biometric Materials Processing, Tomokiyo DOI, et al., pp. 19, January 11, 2001	
mgo		"Preparation of a Structural Color Forming System by Polypeptide-Based LB Films", The fourth NIMC International Symposium on Photoreaction Control and Photofunctional Materials, Takatoshi KINOSHITA, pp. 1-9 and 1-12, March 14, 2001	
mgo		"Nano-Phase Separation in the Monolayer Composed of α -Helical Copolypeptide at Air/Water Interface," Chemistry Letters 2000, Hidenori YOKOI, et al., pp. 1210-1211, The Chemical Society of Japan	
mgo		"The Molecular Recognition and Polypeptide Orientation in the Monolayer at Oil/Water Interface", 12 th Academic Symposium of MRS-Japan manuscripts., December 7, 2000, Kanagawa Y. MOURI, et al., p. 66	
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			Application Number	10/733,450
			Confirmation Number	Not Yet Assigned
			Filing Date	December 12, 2003
			First Named Inventor	Shintaro WASHIZU
			Art Unit	Not Yet Assigned
			Examiner Name	Not Yet Assigned
			Attorney Docket Number	Q78911
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MJD		"Structural color forming system composed of polypeptide-based LB films", Nanotechnology and Nano-Interface Controlled Electronic Devices, T. KINOSHITA, et al., pp. 233-252, 2003	
MJD		"Structural Color with Polypeptide LB Film", Transactions of the Materials Research Society of Japan 27 [3], T. MIYAGI, et al., pp. 555-558, 2002	
MJD		"Polypeptide membranes at an interface", Prog. Polym. Sci., H. YOKOI, et al., pp. 341-357, 2003	

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